

24V DRIVE INTERFACE BOARD (PARALLEL) FTP-622DCL001/011/ FTP-622DSL001/011/012

FOR FTP-622/632/642MCL001/002/301/302/303/304

■ INTERFACE

Centronics

(1) Connector (CN1)

Connector part number : FCN-605Q030-G/S (Fujitsu Components)

Mating connector part number: FCN-607B030-G/D (Fujitsu Components) or equivalent

(2) Connector pin assignment

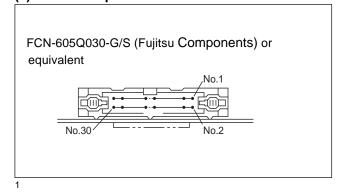
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No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	PRSTB	I	Data strobe	2	PRSTB-RET	_	Connected to logic GND
3	PRDT0	I	Data 0	4	PRDT0-RET	_	Connected to logic GND
5	PRDT1	I	Data 1	6	PRDT1-RET	_	Connected to logic GND
7	PRDT2	I	Data 2	8	PRDT2-RET	_	Connected to logic GND
9	PRDT3	I	Data 3	10	PRDT3-RET	_	Connected to logic GND
11	PRDT4	ı	Data 4	12	PRDT4-RET	_	Connected to logic GND
13	PRDT5	I	Data 5	14	PRDT5-RET	_	Connected to logic GND
15	PRDT6	ı	Data 6	16	PRDT6-RET	_	Connected to logic GND
17	PRDT7	ı	Data 7	18	PRDT7-RET	_	Connected to logic GND
19	ACKNLG	0	Data input acknowledge	20	ACKNLG-RET	_	Connected to logic GND
21	BUSY	0	Busy	22	BUSY-RET	_	Connected to logic GND
23	RINF2	0	Printer status	24	INPRM-RET	_	Connected to logic GND
25	SLCTIN	I	Printer select	26	INPRM	ı	Reset
27	RINF1	0	Printer status	28	RINF3	0	Printer status
29	ĀTF	I	Paper feed request	30	GND	_	Logic GND

Notes:

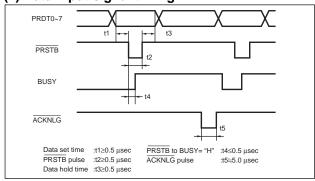
Symbol "——" means a negative logic signal.
"–RET" signal is a return signal of the twisted pair cable.

• "I" or "O" means a signal direction from the interface board side.

(3) Connector pin number



(4) Data input signal timing



Product	Part Number	Function		
Parallel Interface Board	FTP-622DCL001	Standard (without cutter)		
Faraller interface board	FTP-622DCL011	With cutter control		
	FTP-622DSL001	Standard (without cutter)		
Serial Interface Board	FTP-622DSL011	With cutter controller		
Senai interiace board	FTP-622DSL012	With cutter controller + FLASH ROM		
	FTP-622DSL112	With Cutter + KANJI+FLASH ROM		

■ SPECIFICATION

Item	Specification				
Data receive speed	19200, 9600, 4800, 1200 bps (set by dip switch)				
Synchronous method	Asynchronous, full duplex				
Hand shake	DTR/DSR signal or XON/XOFF				
Input output level	RS232C				
Signal level	Space (logic = 0) +3 V ~ +12 V Mark (logic = 0) -3 V ~ -12 V				

2. SERIAL INTERFACE (RS232C)

(1) Connector (CN2)

Part number : B6B-XH-A (J.S.T)

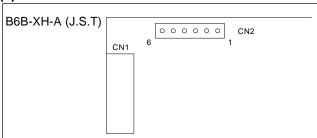
Mating connector part number: XHP-6 (J.S.T) or equivalent

(2) Pin assignment

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	FG	_	Frame GND	2	RD	I	Receive data
3	TD	0	Transmission Data	4	DTR	0	Data terminal ready
5	GND	_	Signal GND	6	DSR	ı	Data set ready

Notes: "I" or "O" means a signal direction from the interface board side.

(3) Pin number



■ CONNECTOR PIN ASSIGNMENT

1. Connector for power supply (CN10)

Part number : B6P-VH (J.S.T)

Mating connector part number: VHR-6N (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	Vcc	_	Power supply for logic (+5 V)	2	GND	_	GND (5 V, 24 V common)
3	GND	_	GND (5 V, 24 V common)	4	GND	_	GND (5 V, 24 V common)
5	V _{DD}	_	Power for head/motor (+24 V)	6	V dd	_	Power for head/motor (+24 V)

2. Connector for thermal head drive (CN8)

Part number : B16B-PH-K-S (J.S.T)

Mating connector part number: PHR-16 (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	VDH	0	Power for head (+24 V)	2	VDH	0	Power for head (+24 V)
3	GND (VDH)	_	Head GND	4	GND (VDH)	_	Head GND
5	STB1	0	Print enable signal 1	6	STB2	0	Print enable signal 2
7	STB3	0	Print enable signal 3	8	TMP	I	Temperature detection signal
9	STB4	0	Print enable signal 4	10	LAT	0	Print data latch signal
11	STB5	0	Print enable signal 5	12	5 VH	0	Power for logic (+5 V)
13	HCLK	0	Data transmission clock	14	HD	0	Print data output signal
15	GND (VDH)	_	Head GND	16	VDH	0	Power for head (+24 V)

Notes:

• Symbol "——" means a negative logic signal.

• "I" or "O" means a signal direction from the interface board side.

3. Connector for Sensor (CN3)

Part number : B5B-PH-K-S (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	+5 V	_	Power for logic (+5 V)	2	PES	I	Paper end detect signal
3	GND (5 V)	_	Logic GND	4	+5 V	_	Power for logic (+5 V)
5	HUP	I	Head-up detect signal				

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FTP-622DCL/DSL

7. Connector for control signal input/ output (CN1)

Part number : FCN-605Q030-G/S (Fujitsu Components)

Mating connector : FCN-607B030-G/D (Fujitsu Components) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	NC	_	No connection	2	NC	_	No connection
3	NC	_	No connection	4	NC	_	No connection
5	NC	_	No connection	6	NC	_	No connection
7	NC	_	No connection	8	NC	_	No connection
9	NC	_	No connection	10	NC	_	No connection
11	NC	_	No connection	12	NC	_	No connection
13	NC	_	No connection	14	NC	_	No connection
15	NC	_	No connection	16	NC		No connection
17	NC	_	No connection	18	NC	_	No connection
19	NC	_	No connection	20	NC	_	No connection
21	NC	_	No connection	22	NC	_	No connection
23	NC	_	No connection	24	NC	_	No connection
25	SLCTIN	I	Select signal	26	INPRM	I	Reset signal
27	NC	_	No connection	28	NC	_	No connection
29	ATF	I	Paper feed request	30	GND	_	GND

^{*}Do not connect outside signal to NC.

4. Connector for paper near end detection (CN5)

Part number : B2B-PH-K-S (J.S.T)

Mating connector part number: PHR-2 (J.S.T) or equivalent

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	+5 V	_	Power for logic (+5 V)	2	NES	I	Paper near end detect signal

5. Connector for stepping motor drive (CN13)

Part number : B4B-PH-K-S (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	MT/B	0	Stepping motor coil excitation	2	MT/B	0	Stepping motor coil excitation
3	MT/Ā	0	Stepping motor coil excitation	4	MT/A	0	Stepping motor coil excitation

6. Connector for cutter drive (CN11) *1

Part number : B4B-EH (J.S.T)

No.	Signal	I/O	Contents	No.	Signal	I/O	Contents
1	SW1	I	Cutter position detect signal	2	GND	_	Logic ground
3	M+	0	Motor control signal (+)	4	M-	0	Motor control signal (-)

^{*1:} Only for FTP-622DCL011/111.

■ PRINTING COMMANDS (CENTRONICS INTERFACE)

HT Line feed. FF Feeds forms (new page). ESC RS Sets reverse printing. ESC US Resets reverse printing. ESC 1+n Sets print mode. ESC 2 Sets 1/6 inch line feed length. ESC 3+n Sets the line feed length. ESC 4+n Sets we page between lines. ESC 4+n Sets the space between lines. ESC 4+n Sets the page length by character line. ESC 2+n Sets the fast position. ESC 2+n Sets the space in reverse direction. ESC 3+n Sets the internal processing. ESC 3+n Feeds paper in reverse direction. ESC 3+n Sets the internal processing. ESC 4+n Sets the internal processing. ESC 4+n Sets the printing speed. ESC 6+n Sets the printing speed. ESC 6+n Sets the printing speed. ESC 6+n Reverse line feed in "n" lines after printing. ESC 6+n Reverse the ged in "n" lines after printing. ESC 6+n Reverse the ged down printing. ESC 8+n Sets/resets the upside down printing. ESC 8+n Reverse line feed in "n" lines after printing. ESC 8+n Reverse line feed distance setting. ESC 8+n Reverse line feed distance setting. ESC 8+n Registre to download "s. ESC 9+n Registre the found of the motor excitation. ESC 9+n Registre the found of the motor excitation. ESC 9+n Registre the download front "s. ESC 9+n External Character registration deletion" Registers the download front "s. ESC 9+n External Character registration deletion" Registers the Kanji print mode" 1. ESC 1+n Sets Kanji mode" 1.	Command	Contents
FF Feeds forms (new page). ESC RS Sets reverse printing. ESC US Resets reverse printing. ESC 1+n Sets print mode. ESC*+m+n++nz+d+-d+k Sets the bit image mode "m" for n1, n2 dot numbers. ESC 2 Sets 1/6 inch line feed length. ESC 3+n Sets the line feed length. ESC @ Printer initialization. ESC A+n Sets the space between lines. ESC 0+n Sets the page length by character line. ESC D+d1-dn+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC C+1+n Sets the internal processing. ESC C+1+n Sets the internal processing. ESC Seth Reverse line feed in "n" lines after printing. ESC 4+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC (+n Sets/resets the upside down printing. ESC SH+n Setting turning time of the motor excitation. ESC X+n+m Seting turning time of the motor excitation. ESC X+n Registers the font to download**. ESC 8+y+c1+c2+x+d1-dn Registers the download front**. ESC 9+n External character registration deletion**. FS E+n Correction of impressed energy. FS 1+n Sets the Kanji print mode**.	нт	Moves the print position to the next tab.
ESC RS Sets reverse printing. ESC US Resets reverse printing. ESC 1+n Sets print mode. ESC*+m+n1+n2+d1-dN Sets the bit image mode "m" for n1, n2 dot numbers. ESC 2 Sets 1/6 inch line feed length. ESC 3+n Sets the line feed length. ESC @ Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+d1-dN+NUL Sets the tap position. ESC J+n Feeds paper in forward direction. ESC S+n Feeds paper in reverse direction. ESC C+1+n Sets the internal processing. ESC R+n Selects the internal processing. ESC R+n Sets the printing speed. ESC S+n Set set printing speed. ESC S+n Reverse line feed in "n" lines after printing. ESC S+n Character code table selection. ESC S+n Sets/resets the upside down printing. ESC S+n Sets/resets the upside down printing. ESC S+n+m Setting turning time of the motor excitation. ESC S+n+m Setting turning time of the motor excitation. ESC S+n Reverse line foed distance setting. ESC S+n Resith Rotation 90" specification / cancellation. ESC S+n Sets the fort to download* not cancellation. ESC S+n Selects the font to download* front* . ESC S+n ESC S+n ESC S+n Esternal character registration deletion* . ESC S+n Esternal character registration deletion* .	LF	Line feed.
ESC US Resets reverse printing. ESC ! +n Sets print mode. ESC*+m+n1+n2+d1-dN Sets the bit image mode "m" for n1, n2 dot numbers. ESC 2 Sets 1/6 inch line feed length. ESC 3 + n Sets the line feed length. ESC 0 Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the space length by character line. ESC D+d1-dN+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC S+n Feeds paper in reverse direction. ESC C+1+n Sets the internal processing. ESC C+1+n Sets the internal processing. ESC R+n Selects the internal character. ESC S+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC d+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC S+n Sets/resets the upside down printing. ESC S+n Sets printing time of the motor excitation. ESC S+n+m Setting turning time of the motor excitation. ESC S+n Reverse line foed distance setting. ESC S+n+m Setting turning time of the motor excitation. ESC S+n Registers the download front*3. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC S+n External character registration deletion*3. FS E+n Correction of impressed energy. FS I+n Sets the Kanji print mode*1.	FF	Feeds forms (new page).
ESC !+n Sets print mode. ESC*+m+n+n+n+n+d+d+ Sets the bit image mode "m" for n1, n2 dot numbers. ESC 2 Sets 1/6 inch line feed length. ESC 3+n Sets the line feed length. ESC @ Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+d+d+d+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC C+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC S+n+m Setting turning time of the motor excitation. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC 8+y+c1+c2+x+d1-dn Registers the download front*3. ESC 7+n External character registration deletion*3. FS E+n Correction of impressed energy. FS I+n Sets the Kanji print mode*1.	ESC RS	Sets reverse printing.
ESC*+m+n+n+n≥d+o-dN Sets the bit image mode "m" for n1, n2 dot numbers. ESC 2 Sets 1/6 inch line feed length. ESC 3+n Sets the line feed length. ESC ⊕ Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+d+o-dx+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC C+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC S+n+m Setting turning time of the motor excitation. ESC X+n+m Setting turning time of the motor excitation.	ESC US	Resets reverse printing.
ESC 2 Sets 1/6 inch line feed length. ESC 3 + n Sets the line feed length. ESC ® Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the space length by character line. ESC D+d₁-dʌ+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC s+n Sets the printing speed. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC (+n Sets/resets the upside down printing. ESC Seth+n Reverse line feed direction. ESC Seth+n Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*s. ESC %+n Selects the font to download front*s. ESC ?+n External character registration deletion*s. ESC ?+n External character registration deletion*s. ESC ?+n External character registration deletion*s. ESC ?+n Sets the Kanji print mode*s.	ESC!+n	Sets print mode.
ESC 3+n Sets the line feed length. ESC @ Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+di-dN+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC (+n Sets/resets the upside down printing. ESC SEM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*9. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC* +m+n1+n2+d1~dN	Sets the bit image mode "m" for n1, n2 dot numbers.
ESC @ Printer initialization. ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+d1-dN+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC K+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC SM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC 8+y+c1+c2+x+d1-dn Registers the download front*3. ESC 9+n External character registration deletion*3. ESC 9+n External character registration deletion*3. ESC 8+n Correction of impressed energy. ESI +n Sets the Kanji print mode*1.	ESC 2	Sets 1/6 inch line feed length.
ESC A+n Sets the space between lines. ESC C+n Sets the page length by character line. ESC D+d1~dN+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC s+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC 8H+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC 8+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC 3 + n	Sets the line feed length.
ESC C+n Sets the page length by character line. ESC D+d1-dn+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*9. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*9. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC @	Printer initialization.
ESC D+d1-dn+NUL Sets the tab position. ESC J+n Feeds paper in forward direction. ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC (+n Sets/resets the upside down printing. ESC 8M+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*1.	ESC A+n	Sets the space between lines.
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ESC K+n Feeds paper in reverse direction. ESC c+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC %+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*1.	ESC D+d1~dN+NUL	Sets the tab position.
ESC c+1+n Sets the internal processing. ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC %+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS !+n Sets the Kanji print mode*1.	ESC J+n	Feeds paper in forward direction.
ESC R+n Selects the international character. ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC K+n	Feeds paper in reverse direction.
ESC s+n Sets the printing speed. ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC c+1+n	Sets the internal processing.
ESC d+n Printing and n-line feeding. ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1-dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC R+n	Selects the international character.
ESC e+n Reverse line feed in "n" lines after printing. ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC s+n	Sets the printing speed.
ESC t+n Character code table selection. ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*1.	ESC d+n	Printing and n-line feeding.
ESC {+n Sets/resets the upside down printing. ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*³. ESC &+y+c1+c2+x+d1~dn Registers the download front*³. ESC ?+n External character registration deletion*³. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*¹.	ESC e+n	Reverse line feed in "n" lines after printing.
ECS EM+n Automatic paper feed distance setting. ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*³. ESC &+y+c1+c2+x+d1~dn Registers the download front*³. ESC ?+n External character registration deletion*³. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*¹.	ESC t+n	Character code table selection.
ESC X+n+m Setting turning time of the motor excitation. ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*³. ESC &+y+c1+c2+x+d1~dn Registers the download front*³. ESC ?+n External character registration deletion*³. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*¹.	ESC {+n	Sets/resets the upside down printing.
ESC V+n Right Rotation 90° specification / cancellation. ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS!+n Sets the Kanji print mode*1.	ECS EM+n	Automatic paper feed distance setting.
ESC %+n Selects the font to download*3. ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC X+n+m	Setting turning time of the motor excitation.
ESC &+y+c1+c2+x+d1~dn Registers the download front*3. ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC V+n	Right Rotation 90° specification / cancellation.
ESC ?+n External character registration deletion*3. FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC %+n	Selects the font to download*3.
FS E+n Correction of impressed energy. FS ! +n Sets the Kanji print mode*1.	ESC &+y+c1+c2+x+d1~dn	Registers the download front*3.
FS!+n Sets the Kanji print mode*1.	ESC ?+n	External character registration deletion*3.
	FS E+n	Correction of impressed energy.
FS & Sets Kanji mode*1.	FS!+n	Sets the Kanji print mode*1.
	FS &	Sets Kanji mode*1.

FTP-622DCL/DSL

(Continued)

Command	Contents	
FS.	Resets Kanji mode*1.	
FS C+n	Selects Kanji code type*1.	
FS 9+n	Sets the detection functions.	
FS*+m+n1+n2+d1~dn	Prints image data on SRAM*³.	
FS r+n	Notifies of printing finish*4.	
FS W+n	Sets/resets 4 times enlarged character.	
GS <	Line feeds to the next mark.	
GS A+m+n	Sets the line feed length after mark detection.	
GS E+n	Sets print quality.	
GS V+n+m	Executes paper cutting*2.	
GS e+n+m	Sets the bar width.	
GS h+n	Sets the barcode height.	
GS k+m+n+d1~dN	Selects the barcode type and prints.	
GS w+n	Sets the barcode length.	
GS &+m+x+y1+y2+[d]k	Registration of image data*3.	
GS '+m+n	Prints registered image data *3.	
GS a+n	Sets and cancels status transmission (valid only for DSL)*3.	

^{*1:} Only for FTP-622DSL112.

^{*2:} Only for FTP-622DCL011 or FTP-622DSL011/012.

^{*3:} Only for FTP-622DSL012.

^{*4:} Only for FTP-622DSL011/012.

■ OPTIONS

1. Cable (With FTP-622MCL, FTP-632MCL, FTP-642MCL)

Name		Part Number	Cable Length
Thermal head connection cable (CN8)*		FTP-622Y001	270 mm (10.6 inches)
Interface cable	Centronics (CN1)	FTP-622Y201	500 mm (19.71 inches)
	Serial (CN2)	FTP-622Y301	500 mm (19.71 inches)
Power cable for head, motor, and logic (CN10)		FTP-622Y401	300 mm (11.8 inches)
* short cable option		FTP-624Y001	150 mm (5.9 inches)

2. Paper holder

Name	Part number
Flange	FTP-040HF
Stand	FTP-040HS

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